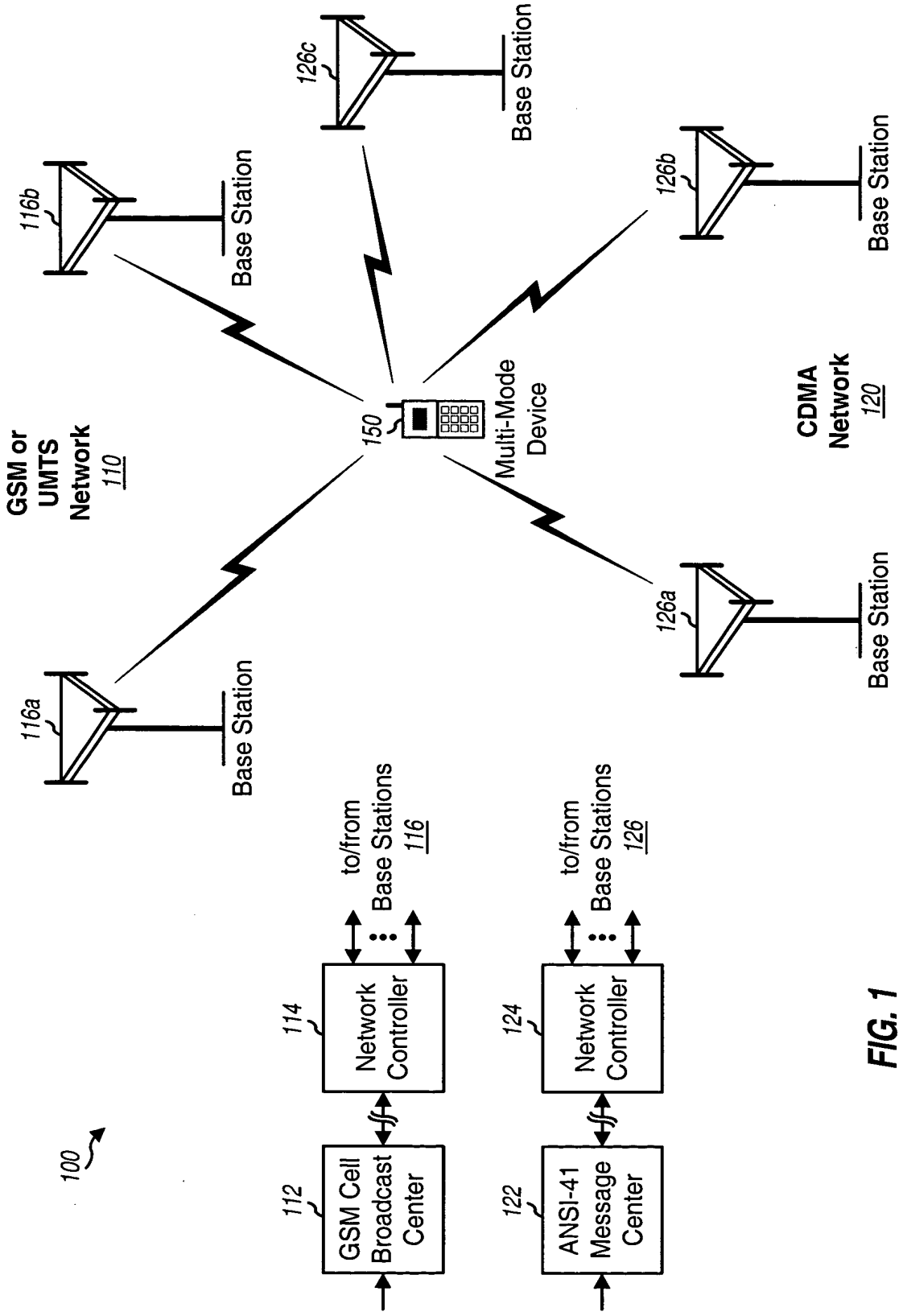
100
GSM Cell Broadcast Center
112
Network Controller
114
to/from Base Stations
116
ANSI-41 Message Center
122
Network Controller
124
to/from Base Stations
126
GSM or UMTS Network
110
CDMA Network
120
Multi-Mode Device
150
Base Station
116a
Base Station
116b
Base Station
126a
Base Station
126b
Base Station
126c

FIG. 1

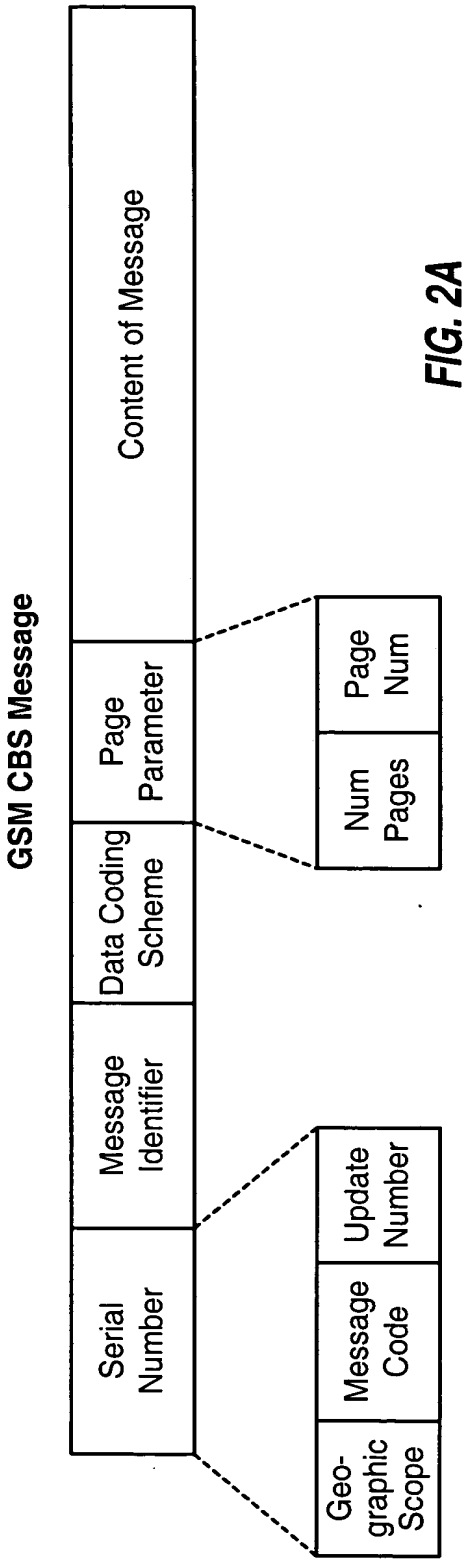
GSM CBS Message
Serial Number
Message Identifier
Data Coding Scheme
Page Parameter
Content of Message
Geo-graphic Scope
Message Code
Update Number
Num Pages
Page Num

FIG. 2A

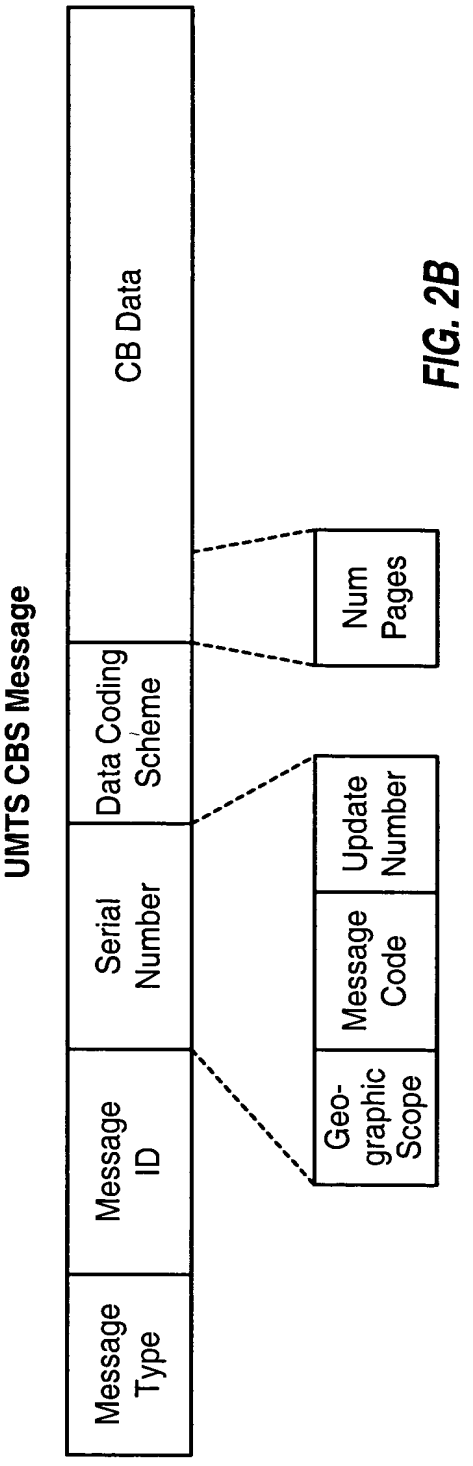
UMTS CBS Message
Message Type
Message ID
Serial Number
Data Coding Scheme
CB Data
Geo-graphic Scope
Message Code
Update Number
Num Pages

FIG. 2B

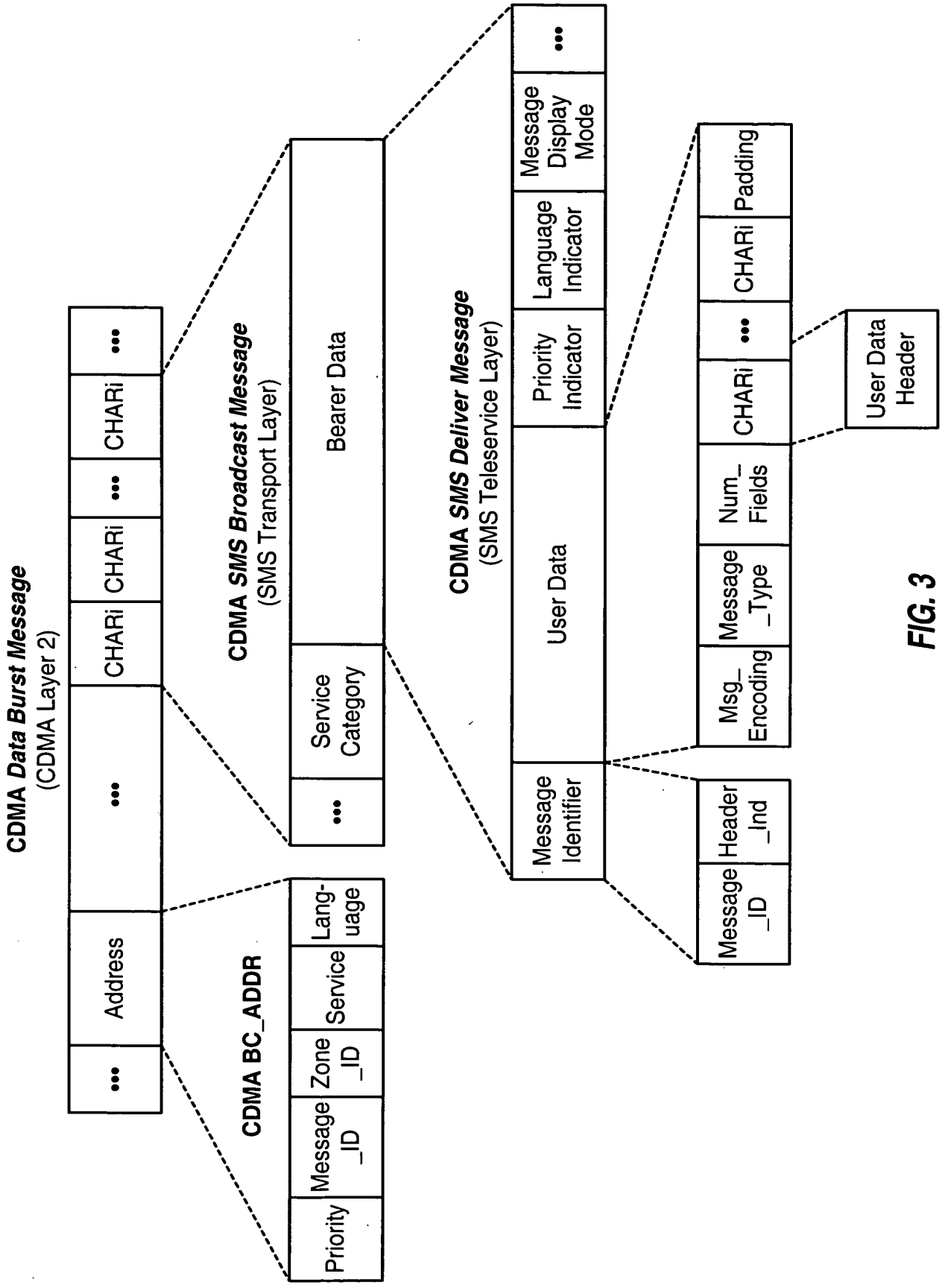
CDMA Data Burst Message
(CDMA Layer 2)
...
Address
...
CHARi
CHARi
...
CHARi
...
CDMA BC_ADDR
Priority
Message_ID
Zone_ID
Service
Lang-uage
CDMA SMS Broadcast Message
(SMS Transport Layer)
...
Service Category
Bearer Data
CDMA SMS Deliver Message
(SMS Teleservice Layer)
Message Identifier
User Data
Priority Indicator
Language Indicator
Message Display Mode
...
Message_ID
Header_Ind
Msg_Encoding
Message_Type
Num_Fields
CHARi
...
CHARi
Padding
User Data Header

FIG. 3

400

Service Table

Service Category	Language	Label	Priority	Selected	Alert Option	Max Messages	•••
General News - Local	English	Local News	00	Yes	0000	10	
General News - National	Spanish	National News	10	No	0010	5	
Sports News - National	English	Sports News	00	Yes	0100	20	
Area Traffic Reports	English	Traffic	01	No	0000	5	
Local Weather	English	Weather	11	No	1010	3	
Stock Quotes	English	Quotes	00	Yes	0000	20	
⋮	⋮	⋮	⋮	⋮	⋮	⋮	

FIG. 4

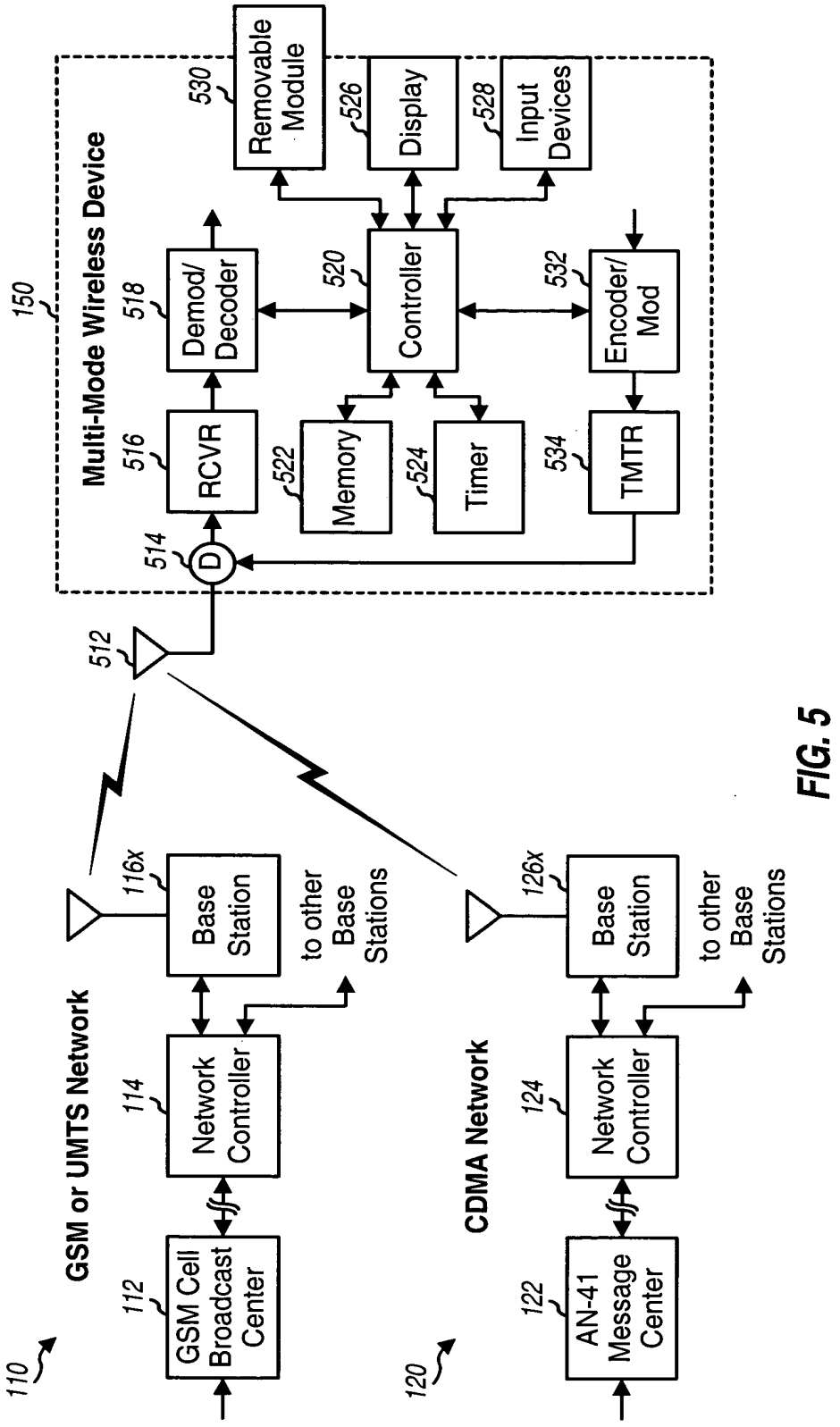
Multi-Mode Wireless Device
150
Removable Module
530
Display
526
Input Devices
528
Demod/ Decoder
518
Controller
520
Encoder/ Mod
532
RCVR
516
Memory
522
Timer
524
TMTR
534
514
D
512
GSM or UMTS Network
110
Base Station
116x
to other Base Stations
Network Controller
114
GSM Cell Broadcast Center
112
CDMA Network
120
Base Station
126x
to other Base Stations
Network Controller
124
AN-41 Message Center
122

FIG. 5

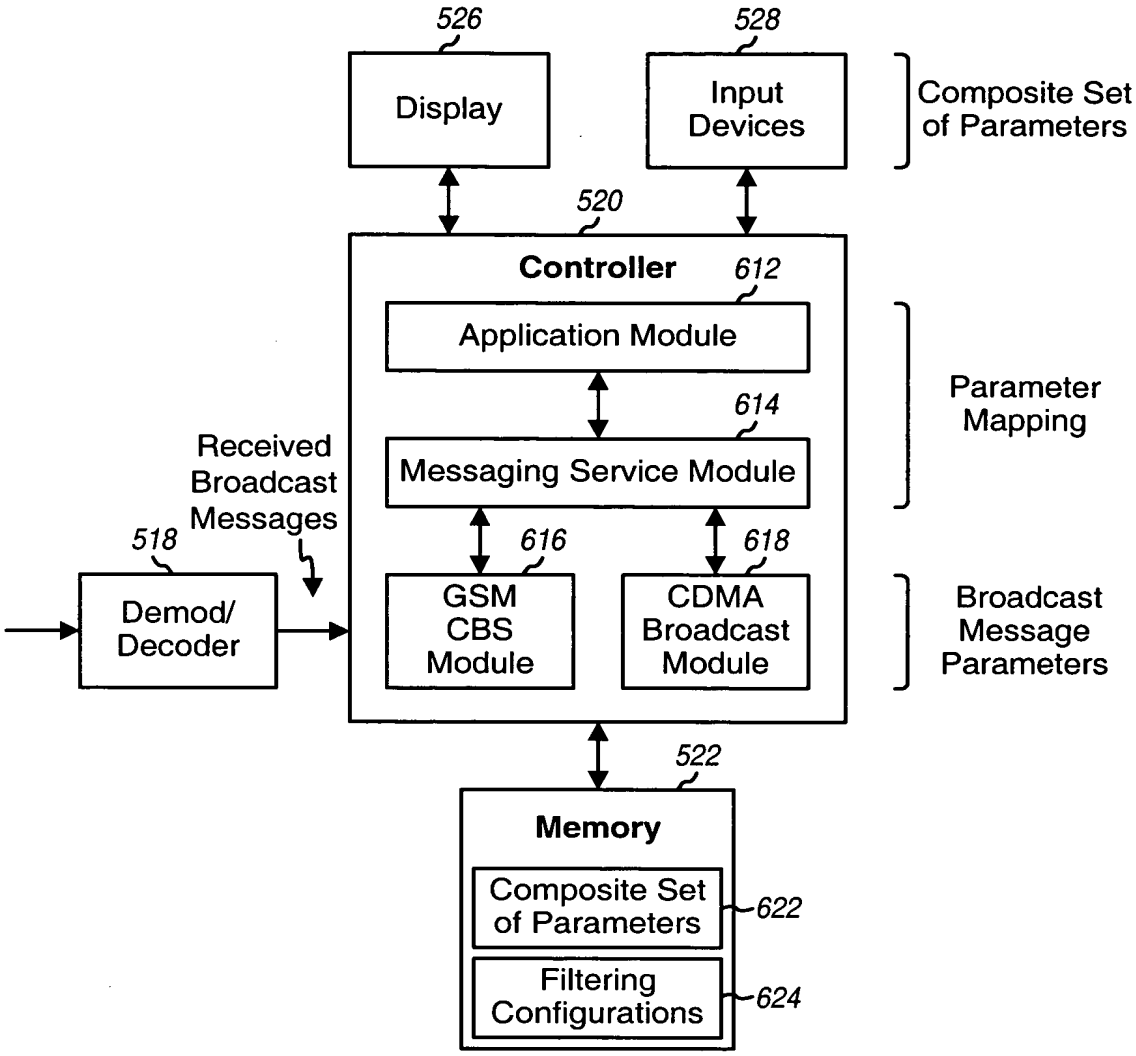
526
528
Display
Input Devices
Composite Set of Parameters
520
Controller
612
Application Module
614
Messaging Service Module
Parameter Mapping
Received Broadcast Messages
518
616
618
Demod/ Decoder
GSM CBS Module
CDMA Broadcast Module
Broadcast Message Parameters
522
Memory
Composite Set of Parameters
622
Filtering Configurations
624

FIG. 6

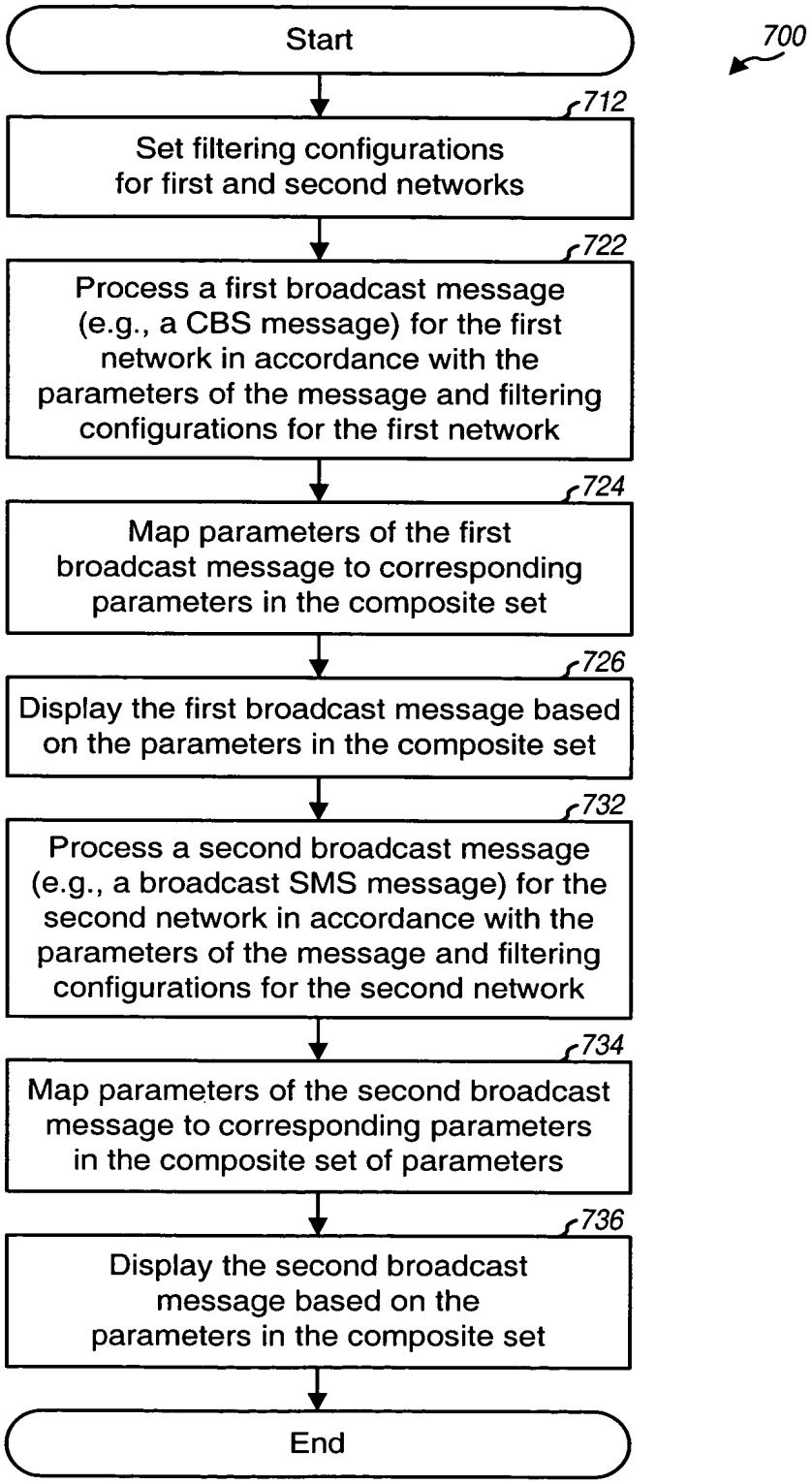
Start
700
712
Set filtering configurations for first and second networks
722
Process a first broadcast message (e.g., a CBS message) for the first network in accordance with the parameters of the message and filtering configurations for the first network
724
Map parameters of the first broadcast message to corresponding parameters in the composite set
726
Display the first broadcast message based on the parameters in the composite set
732
Process a second broadcast message (e.g., a broadcast SMS message) for the second network in accordance with the parameters of the message and filtering configurations for the second network
734
Map parameters of the second broadcast message to corresponding parameters in the composite set of parameters
736
Display the second broadcast message based on the parameters in the composite set
End

FIG. 7

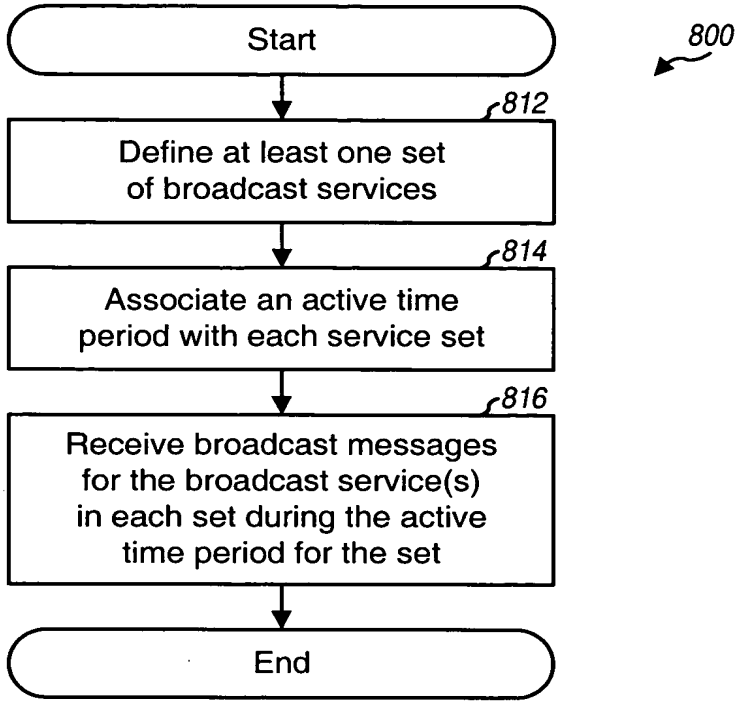
Start
800
812
Define at least one set of broadcast services
814
Associate an active time period with each service set
816
Receive broadcast messages for the broadcast service(s) in each set during the active time period for the set
End

FIG. 8